



RIGID HVAC CO., LTD

COOLING SPECIALIST



MINIATURE COMPRESSOR

THE FUTURE OF COMPACT & PORTABLE COOLING

RIGID Rotary Mimi Compressors (12V, 24V, 48V DC)

are exceptional compact and achieve extra odinary power capacity. Its small, high-perform brushless compressor-the size of a child's fist. Current models capacity range from 100W to 550W under standard ASHRAE conditions, using a single cylinder configuration.

With 12V, 24V, and 48V configurations ad R134a refrigerants, these compressors can be used in a wide range of Refrigeration and Air Conditioning conditions in LBP, MBP, and HBP applications.

The mini battery compressors are starting a new trend in various compact mobile cooling systems as well as mobile and small foot-print countertop appliances where space and weight are important.

Furthermore, the Sine Wave controller (Patent Technology) provides variable speeds and high efficiency and assures compressor stability.



CONVENTIONAL VS RIGID

Danfoss DC Compressor



CONVENTIONAL

Reciprocating BLDC COMPRESSOR in current market: larger, heavier and small capacity.



Rigid DC Miniature Compressor



RIGID'S NEW PATENT

Only **1/17th** of the volume, **1/11th** of the weight than reciprocating compressor. While cooling capacity and efficiency are **Twice** more than conventional reciprocating compressor.

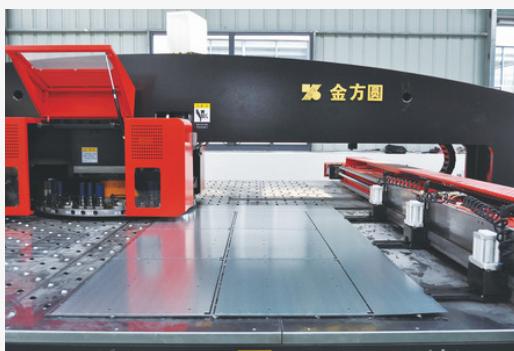
Just imagine what you can do with our ultra compact, yet powerful and high efficient rotary dc compressor to drastically improve your small applications and equipment!

RIGID FACTORY



RIGID is an innovative refrigeration solution provider specialize in manufacture, R&D and marketing of miniature compressor and small cooling modules. Our products are widely used in vehicle, hospital, medical, Aesthetic... for both air conditioning and refrigeration applications where space and weight are the most important.

- * Skilled Workers
- * Dust-Free Plant
- * Automatic Production Line



POWERFUL COMPRESSOR

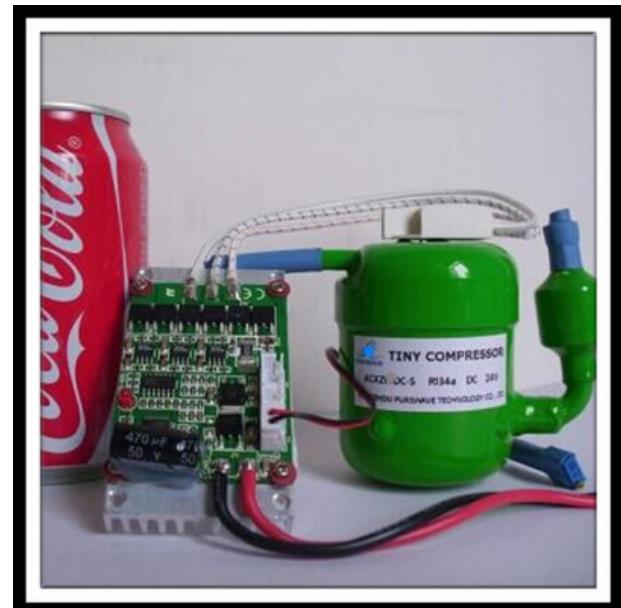
DC 12V/24V/48V

Refrigerant: R134A

Compressor: Rotary & Inverter

Features:

- 1. Ultra Small Size.**
- 2. Various Speed range 2000~6000rpm.**
- 3. Charged by Battery, Solar Power & Car Power**



CONDENSING UNIT DC 12V/24V/48V

Size: 25 x 15 x 17cm

Power Supply: BLDC 12V, 24V and 48V;

Features:

Small size & Ultra compact;

Brushless DC inverter Compressor;

Available for LBP, MBP and HBP systems;

Power Charge: Battery, grid or solar power;

Applications:

Refrigeration Cycle Systems

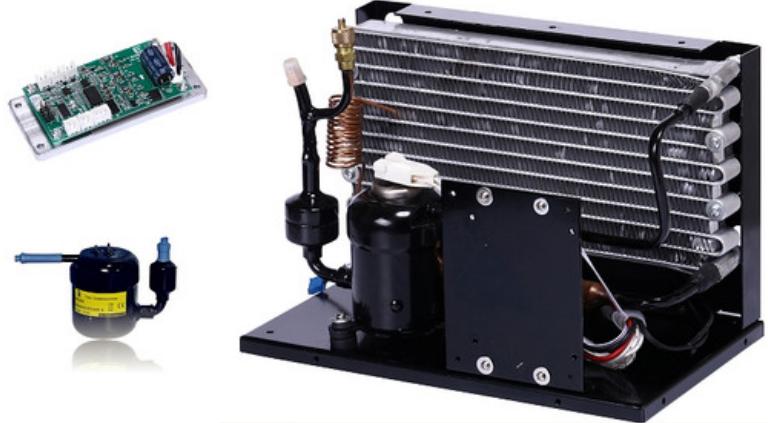
Portable Cooling Systems

Mini-Chilled Water Systems

Electronics Cooling Systems

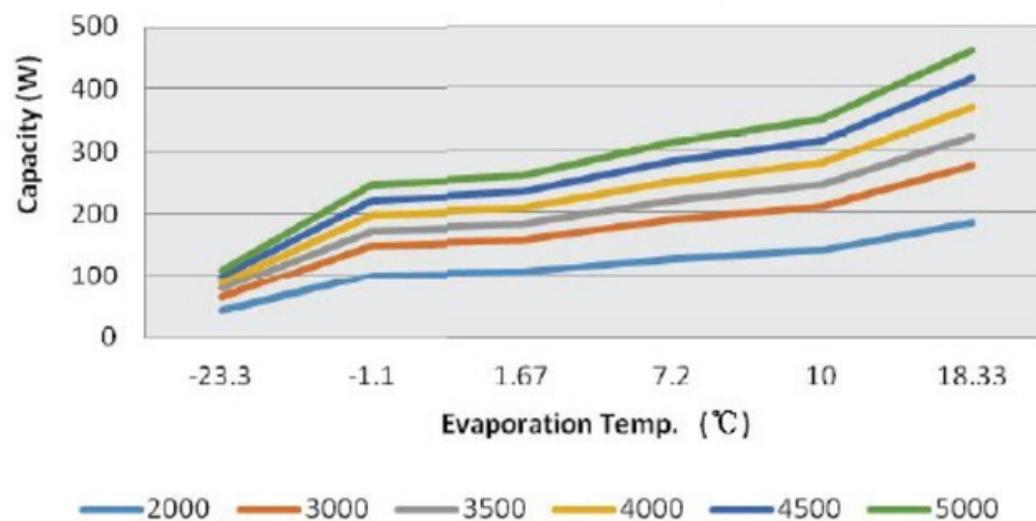
Miniature Refrigeration/Aircon Systems

Medical & Cosmetic & Aesthetic Equipment



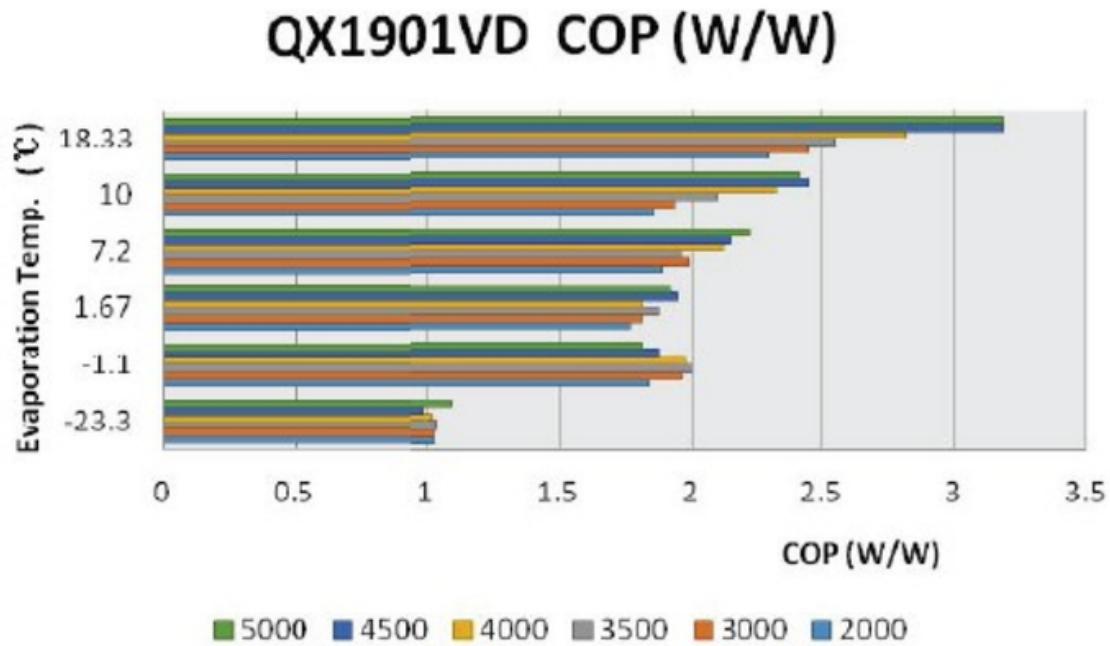
POWERFUL

Capacity ranges from 100W to 500W under condition ASHRAE condition...



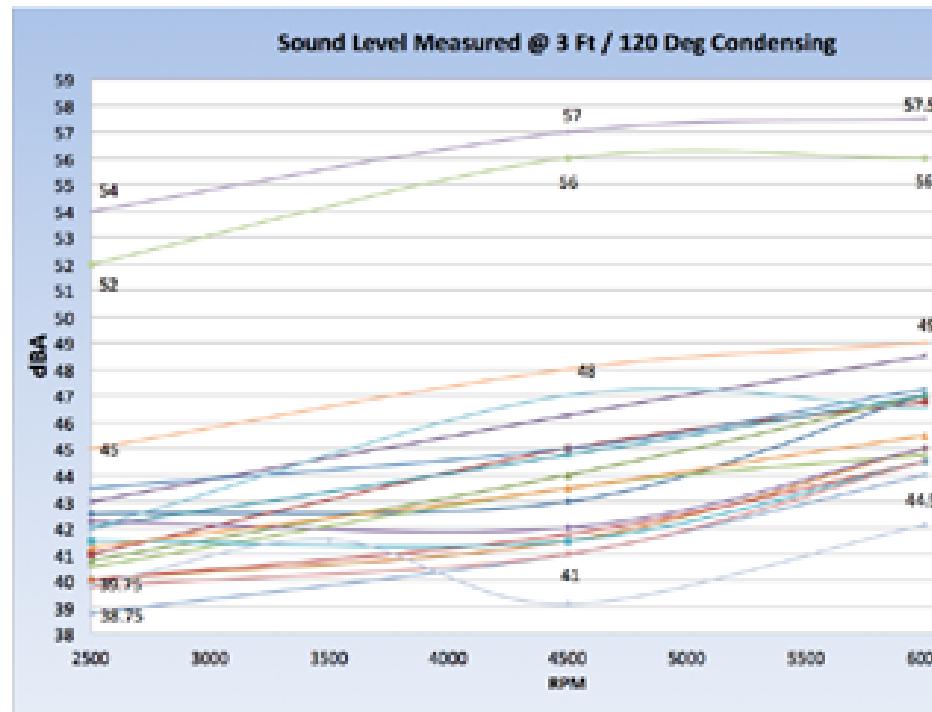
HIGH EFFICIENT

Performance rivals that of much larger standard compressors...



QUIET

40dBA to 50 dBA noise level compete with OEM products...



WORLD'S SMALLEST

Only a child's fist size, upwards 1/7 weight, 1/12 volume of standard compressor...



THAT'S IT! SMALL!

Palm Size! Big Performance...



EASILY INTEGRATED

Versatile design enables flexibility for customs applications...



APPLICATION



These groundbreaking compressors are ideally suited for mobile and portable refrigeration and air-conditioning, such as medical & aesthetic & cosmetic cooling, precision electronics & instrument, and in numerous personal & commercial refrigerations, where space and weight are the most important.



**Firefighting & Military
& Welding Miniature
Refrigeration**



**Portable Cooling System
& Beverage Cooling**



Electric Car Aircon

APPLICATION



Vaccine Refrigerator



Portable Refrigerator



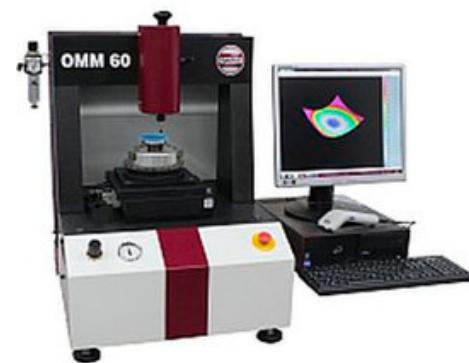
Yacht Freezer



Ice Maker

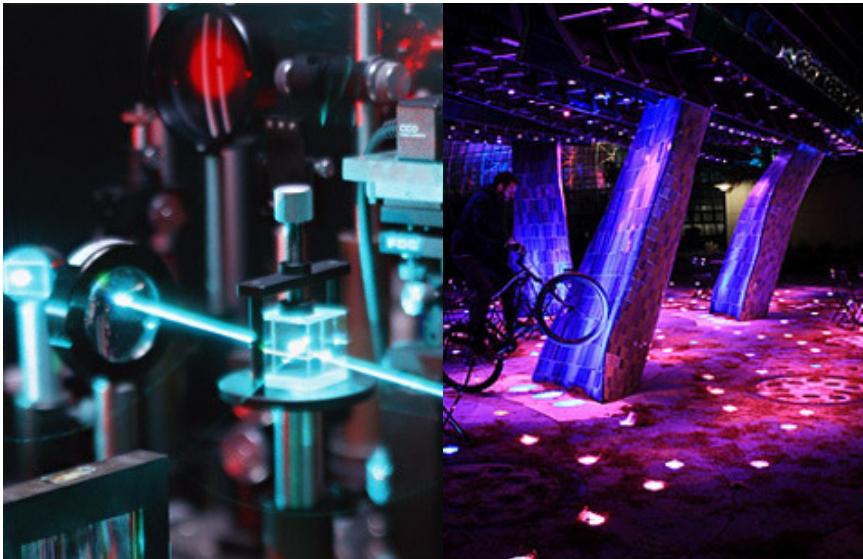


Water Dispenser



Precision Equipments

APPLICATION

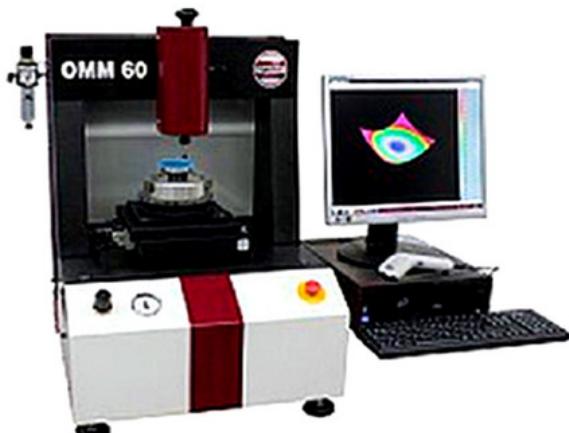


Electronic* Laser* LED



Fire fighting * Body Cooling





**Medical
Aesthetic
Physical Medicine**

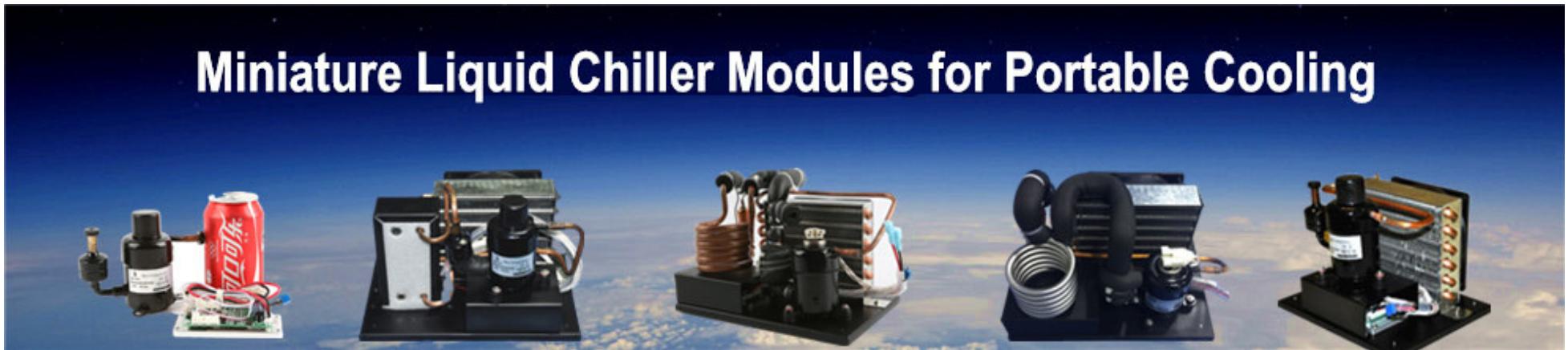


RIGID

COMPACT LIQUID CHILLER SYSTEM

Rigid has been looking for novel solutions, we are creative and capture new technologies. Our success is based on continuous involvement in research and development.

Miniature Liquid Chiller Modules for Portable Cooling



Product Details

[Click here!](#)

LCM OPERATING PRINCIPLE

Rigid circulatory cooling units are self-contained high-efficient refrigeration compressor with R134A coolant, smallest condenser and evaporator, filter drier and driver board etc. All these refrigeration parts are all well integrated in one unit, sophisticated design by our skilled engineers. It serves as a source of chilled water for circulation through the water pipes, and the unit has smallest footprint and weight make it portability.

